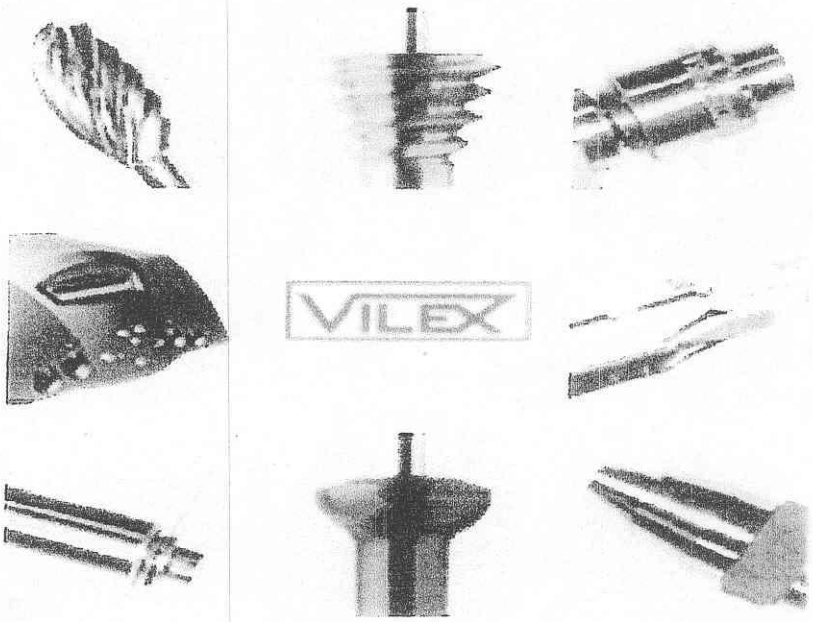
Operating Manual

We'll Wait On You Hand and Foot



Serving Orthopedic, Podiatry & Plastic Surgeons

Vilex, Inc.
111 Moffitt Street
McMinnville, TN 37110
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International Tel: 931-474-7550 • 931-474-7551
Email: vilex@infoave.net
www.vilex.com

power equipment

Electronic Power Console

Introducing the New Electronic Console from Vilex

This new, redesigned console features a sleek new exterior casing with easy-to-read display, and dual power controls.

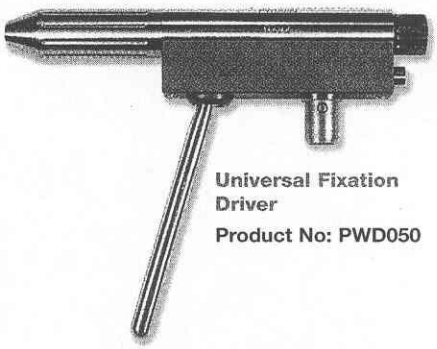
- Built-in international power converter
- Variable speed (2,500 – 30,000 rpm)
- Digitally controlled menu is easy to read
- Visual and audio indicators for reverse mode
- Small, lightweight, and portable-only 9.5 lbs.
- ETL approved and CSA approved (UL 544)
- Non-autoclavable

Product No: PEC105

Vilex Handpieces

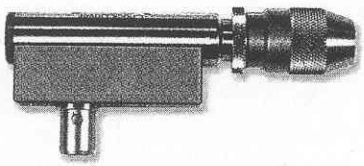
Brushless Motor with #8 Detachable Cord

Product No: Motor – PMC825
Product No: Cord – PAC126



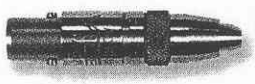
Universal Fixation Driver

Product No: PWD050



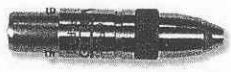
ECO Driver with Auto Chuck

Product No: PCD051 with 5/32 (4.0mm) Auto Chuck



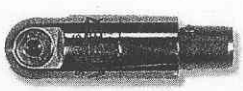
AO Rotary Drill

Product No: PAR021



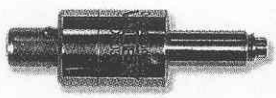
Standard Rotary Drill

Product No: PSR020



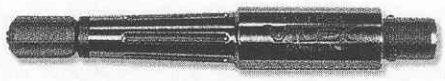
Sagittal Saw

Product No: PSS047



Oscillating Saw

Product No: POS038



Reciprocating Saw

Product No: PRS040 (2.1 Gear Reduction)
Product No: PPR041 (4.1 Gear Reduction)

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Power Console, Motor, & Footswitch

Base Unit Features

Console PEC105 (Old# 9750-104, PEC104)
- Built-in international power converter
- Digital read out and easy to read controls
- Mylar control/display panel with easy to read LED
- Two motor and footswitch connectors
- All external fuses for fast change
- Visual and indicators for reverse mode
- Small, lightweight, and portable 9 1/2 lbs (4.30 Kg.)
- ETL Approved and CSA Approved (UL 544)
- Non-autoclavable

Motor PMC825 & Cord PAC126 (Old version 9750-250R)
- Superior Brushless Motor (30 volt - 0-30,000 rpm)
- Quick-locking coupler for fast and easy attachment
- Ample 10' (300cm) motor cord, diameter .25 inch
- Fully autoclavable motor and cord
- Quiet, almost no vibration, and runs cool
- Torque: .6 inch/ounce stall torque rated
- Diameter: 1.35 inches, Length: 4.4 inches
- Weight: (excluding cord) 7.8 ounces (200 grams)

Foot switch (Old# 9750-117), Non-autoclavable
- Three styles available: On/Off (PFS115), Dual On/Off (PFS116) or Variable Speed (PFS117)

Base Unit Operating Procedure

CAUTION: Follow proper sterilization procedures before operating this device in a surgical environment.

Console Voltage Warning: The unit (PEC105) is preset for 110-120 volts using a domestic gray cord. If you are using 220-240 volts with an International black cord, locate the input module at the rear of the unit at the top left side. It should show 115 as the voltage setting. Use a flat head screw driver in the top slot to remove the input module, rotate it, and verify that it shows 230 through the window on the input module. ***Failure to verify setting may cause circuit board failure.***

1. Plug 110-125V hospital grade power cord into back plug (input module) on unit
2. Plug Vilex Motor (PMC825) with detachable cord (PAC126) into M1 plug in the front unit panel
3. Plug Vilex Footswitch (PFS115, PFS116, or PFS117) into Fs1 in the front unit panel
4. There is a switch on the back of the unit (o = off, - = on). Choose - to turn the unit on.
5. The unit is preset to come on with the following settings:
   Set speed of whatever the unit was used at during the last session (Speed range available 8,000-30,000 rpms)
   m1 for Motor#1, fs1 for Footswitch#1
   (Two motors and two footswitches can be plugged into the unit at one time, but only one set can have power. This option is for a Physician wanting to use a saw, drill or two other hand pieces during a quick procedure and who does not want to change out hand pieces in the motor. He/She can simply use one on m1 or fs1 then select m2 or fs2 and use the other set.)
   Depress footswitch completely and motor will continuously run within 500 rpms of the set speed. If you let off the variable speed footswitch, the rpms will change to whatever speed the motor is actually running.
6. If you choose to reverse the motor operation, the motor should be stopped, then depress and hold the fwd/rev button for m1 or m2 (depending on which motor you want to reverse) until REVERSE comes up on the screen. Choose fwd/rev to change back to SPEED for forward operation.
   At this time, operation can be continued either via footswitch operation or if you have chosen Manual Footswitch the operation would begin by depressing and holding the start/stop button for five seconds.
7. When running motor in footswitch or manual mode, the set speed can be reduced or increased by depressing buttons ▼ or ▲.
8. By choosing select (sel), you can change the following items:
   Motor selection 1 ▲, Motor selection 2 ▼
   Motor speed ▲ to decrease speed, ▼ to increase speed
   Footswitch operation ▲ for footswitch mode, ▼ for manual mode
9. When manual footswitch mode is chosen, depress and hold the start/stop button for five seconds to start the motor operation. Choose the start/stop button to stop motor operation.
10. If Vilex motor controller operation becomes inactive, flip the on/off switch at the rear of the unit to the off position. Leave in OFF position for ten seconds and then turn it back on. This will restart the internal computer and normal operations can be continued.

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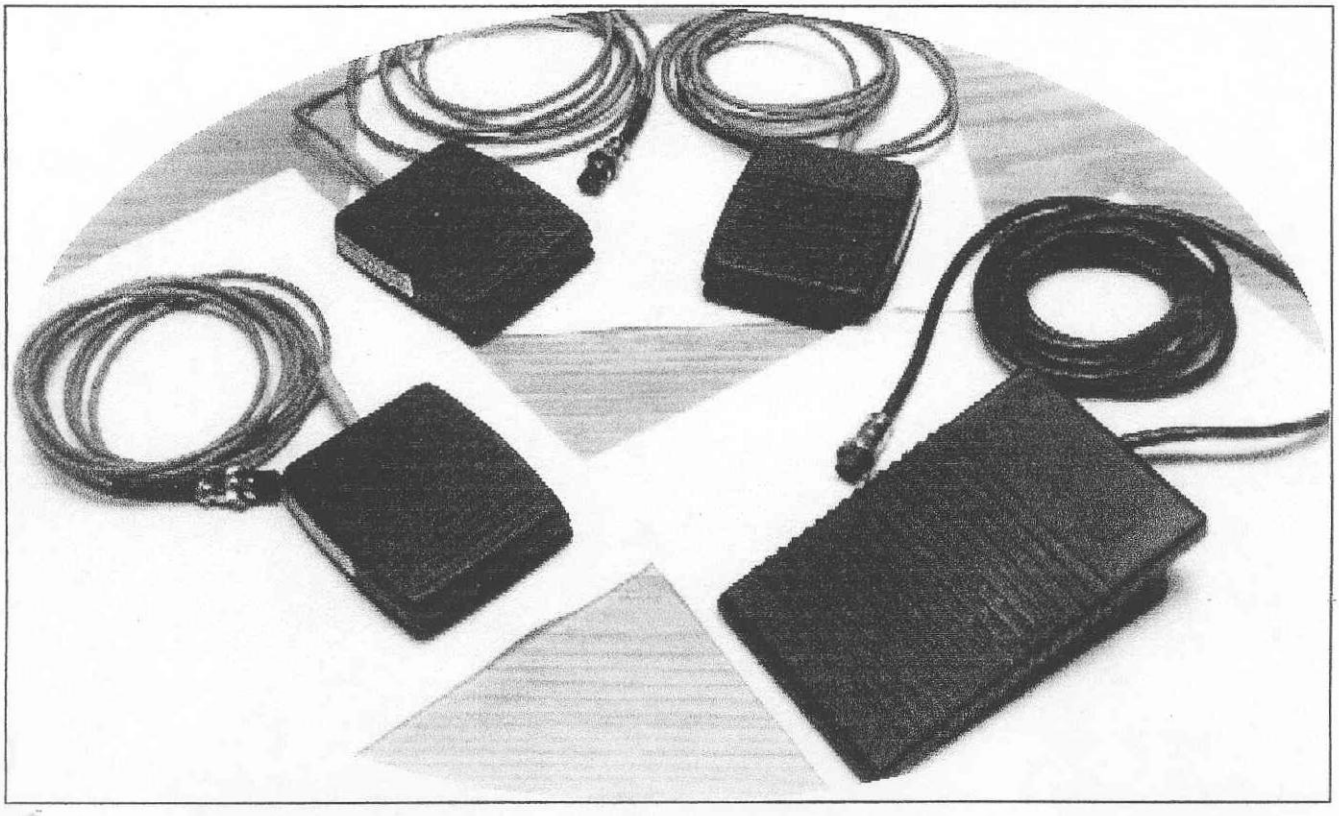
Vilex PMC825 Brushless Motor w/PAC126 Detachable Cord

Vilex Footswitches: PFS115 On/Off, PFS116 Dual On/Off, PFS117 Variable Spd.



VILEX Power Saws

VILEX saws are fully autoclavable (gas or steam) and may be used with VILEX, UAM, or ERGO Power Units.

Sagittal

Product# PSS047, Old# 9750-047

- Allows excellent visibility to the surgical site.
- Advanced smooth-running design improves tactile sensation for precise cutting
- Recommended speed: 25,000 rpm
- Blade excursion: 5° arc, Arc range of 180°
- Material: Stainless Steel
- Weight: 2.9 oz (82 grams)
- Length: 2.625 inches (66.7mm)
- Working length: 2.0 in (51mm)
- Diameter: .75 in (19 mm)
- Blade lock screw: 9/64 Allen

Oscillating

Product# POS038, Old# 9750-038 Straight

- Refined smooth performance allows surgeons to perform osteotomies with ease.
- Recommended speed: 25,000 rpm
- Blade excursion: 5° arc
- Material: Stainless Steel
- Weight: 5.15 oz (147 grams)
- Length: 3.25 inches (82.5mm)
- Working length: 2.65 in (67.3mm)
- Diameter: 1.00 in (25.4mm)
- Blade lock screw: 9/64 Allen

Reciprocating

Product# PRS040, Old# 9750-040 (2:1 gear reduc
Product# PPR041, Old# 9750-041 (4:1 gear reduc

- Gear reductions increase torque significantly
- Comfortably fits the surgeon's hand for proper balance and feel
- Accepts both round and flat shank rasps, blades and broaches
- Recommended speed: PRS040 0-12,000 rpm
- Recommended speed: PPR041 0-5,000 rpm
- Blade excursion: 0.93 inch (2.36mm)
- Material: Stainless Steel
- Weight: 4.0 oz (113.4 grams)
- Length: 5.0 in. (127mm), Diameter: .75in (19mm)

Pictures shown are not actual size.

Saw Operating Procedure

CAUTION: Follow proper sterilization procedures before operating this device in a surgical environment.

Sagittal Blade Installation

1. Loosen lock screw by using the allen wrench provided.
2. Turn wrench counter-clockwise to loosen. DO NOT attempt to remove this locking screw.
3. Insert sagittal blade between the two pressure plates.
4. Turn lock screw clockwise to tighten. DO NOT use extreme force.
5. Attach saw to motor via the quick locking connector. Saw is ready for use.

Oscillating Blade Installation

1. Loosen lock screw by using the allen wrench provided.
2. Turn wrench counter-clockwise to loosen. DO NOT attempt to remove this locking screw.
3. Insert oscillating blade between the two pressure plates.
4. Turn lock screw clockwise to tighten. **DO NOT** use extreme force.
5. Attach saw to motor via the quick locking connector. Saw is ready for use.

Reciprocating Attachment Installa

1. Turn locking collar counter-clockwi until it stops. DO NOT use force o attempt to remove collar, doing so will damage the internal threads.
2. Insert attachment (blade or rasp) in saw, pushing slightly until it is seat
3. Turn locking collar clockwise to loc attachment in place. DO NOT ove tighten.
4. Attach saw to motor via the quick locking connector. Saw is ready fo use.

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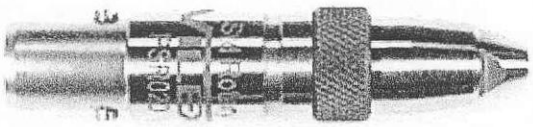
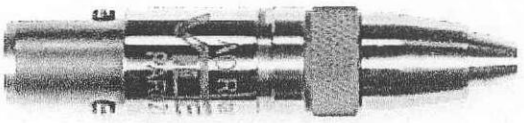
Power Rotary (Drill)

Features

- Material: Stainless Steel
- Total weight: 1.9 oz or 54 grams
- Total length: 2.625 inches or 66.675 mm
- Working length: 2.0 inches or 50.8 mm
- Diameter: .642 inches or 16.3 mm
- Maximum shank diameter: .092 inches or 2.336 mm
- Power: Electric or Pneumatic VILEX, UAM, ERGO, Accufex, or Storz
- Fully autoclavable (Gas or Steam); DO NOT IMMERSE
- Built in burr guard; other burr guard sizes available





Pictures shown are not actual size.

Standard Rotary w/Green locking band

New Product# PSR020, Old# 9750-020

Suitable for all specialties

Recommended speed: Electric 0-25,000 rpm
Pneumatic 0-35,000 rpm

AO Rotary w/Blue locking band

New Product# PAR021, Old# 9750-021

Designed for delicate drilling

Recommended speed: Electric 0-6,250 rpm
Pneumatic 0-7,000 rpm
4:1 Reduction Ratio

Rotary Operating Procedure

CAUTION: Follow proper sterilization procedures before operating this device in a surgical environment.

Burr/Drill Installation

1. Insert rotary/drill hand piece into the motor via the quick-lock connector. **Pull the blue or green locking band back toward the motor.** Insert burr/drill into the hand piece and release the blue or green locking band. DO NOT RUN the hand pieces without a burr or drill bit installed.
2. For best results, use VILEX brand burr/drills. The VILEX, UAM, ERGO rotary/drill requires that the drill bits or burrs have either a flat or a j-notch on the rotary/drill end of the bits' shank. This notch locks into the rotary and prevents possible rotational slippage.
3. After use, follow cleaning and sterilization procedures.

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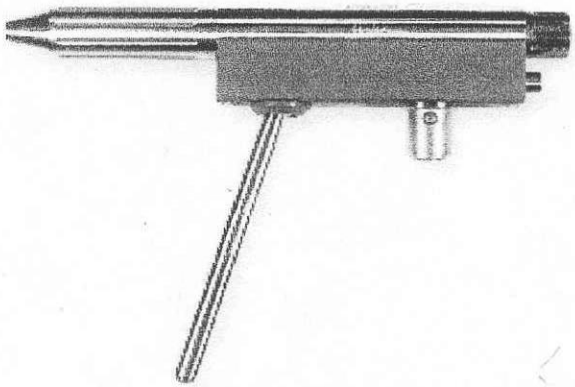
Power Wire Drivers

Features

Universal Fixation Driver

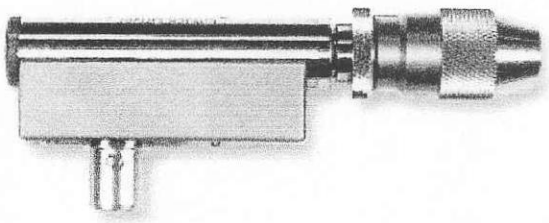
- Multi-purpose... all-in-one driver
- K-wire, Steinmann Pin, Wire-Pass and Twist Drill driver
- No Tools, Collets, or Adapters Required
- Low RPM range that is practically unstoppable
- Extracts wires extending only 6mm out of the cortex
- Operates with VILEX, UAM, or ERGO power units
- Torque 260 Inch Ounces
- Stainless Steel and Aluminum Construction
- Length 6.25 inches (158.75 mm)
- Weight 12.4 oz (350 grams)
- Width 4.87 inches (124 mm)
- Barrel diameter .75 inches (19.05 mm)
- Autoclavable (Gas or Steam), reliable & virtually maintenance free
- Dial size selector allows you a full range of wire and shank diameter settings (.028,.035,.045,.054,.062,.078,.093 & .125)



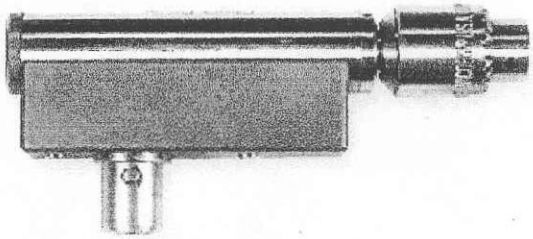
Product# PWD050, Old# 9750-050

Eco Driver

- Simplicity in design with economies in mind
- Small, lightweight and powerful
- Ideal for Micro Twist Drills, all K-Wires, low RPM rotary burrs, and Steinmann Pins up to 4.0mm diameter
- Variable speed 0-3,200 rpms, high torque
- Operates with VILEX, UAM, or ERGO power units
- Stainless Steel and Aluminum construction
- Length 8.0 cm / Weight 8.6 oz. (300 grams)
- Autoclavable (Gas or Steam)



Product# PCD051 (9750-051) with 5/32 (4.0mm) auto chuck



Product# PCD052 (9750-052) with 5/32 (4.0mm) chuck & key

Pictures shown are not actual size.

Driver Operating Procedures

CAUTION: Follow proper sterilization procedures before operating this device in a surgical environment.

1. Unscrew the protective dial cover. It is not necessary for operating the hand piece.
2. Choose "Forward or Reverse" on the dial located at the end of the hand piece.
3. To set wire/drill shank size, grasp the driver while placing the thumb on the "Lock Button" located at the end of the driver directly below the "Forward/Reverse" knob.
   While depressing the "Lock Button", rotate the selector drum until the desired diameter size is visible in the "Wire Size" selector window.
4. Insert the desired wire/drill into the hand piece from the front end.
5. The trigger activates the locking mechanism inside the hand piece. It does not power the rotation of the drum. DO NOT pull the trigger with excessive force.
6. Attach hand piece to motor utilizing the quick lock connector.
7. The Universal Fixation Driver is now ready to use.

1. Insert wire/drill into front of chuck
2. Lock via auto chuck by holding knurled ring and turning chuck or by turning the key and locking the keyed chuck
3. Attach hand piece to motor utilizing the quick lock connector.
4. The Eco-Driver is now ready to use.

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General Information

Effective 7/1/04

Warranty on Vilex power equipment is One Year from sales invoice date.

Orders may be placed with our Customer Service Department:

1. Between the hours of 8:00 - 5:00 CST by calling 1-800-521-5002 (US, Canada, PR)
   Between the hours of 8:00 - 5:00 CST by calling 1-931-474-7550 (All other Countries)
2. Fax to 1-866-606-4911 (US, Canada, PR)
   Fax to 1-931-474-7551 (All other Countries)
3. Email vilex@infoave.net

Vilex standard shipping vendors are FEDEX and UPS. Minimum UPS Ground shipping charge for five pounds or less is $8.00. Contact VILEX for rate quotes on Next Day, 2-Day, 3-Day, International or other shipping options. Vilex cannot guarantee Next Day delivery; once the shipment leaves our dock (FOB: McMinnville, TN) it is in the care of FEDEX or UPS.
Orders received after 2:00 pm which require priority shipping will incur an additional $10.00 delivery charge.
All backordered items are shipped with no charge for shipping.
Please notify Vilex within 48 hours if you receive a damaged or incorrect shipment.
Do not accept a shipment if the parcel appears damaged; inspect first.
It is the customers responsibility to file a claim for damaged packages with the appropriate carrier.

RETURN GOODS POLICY

In compliance with FDA regulations and in keeping with good manufacturing practices, VILEX must observe the following:

1. ALL ITEMS MUST BE DISINFECTED, STERILIZED and/or AUTOCLAVED BEFORE returning to VILEX for repair or credit.
2. A Return Authorization Number must be obtained from VILEX by calling 931-474-7550 before returning goods. This number should be written on the return box exterior. Goods returned without a RAN WILL BE REFUSED.
3. Full credit less shipping/handling charges will be issued for any item returned within 30 days from invoice date that is unused, undamaged and in saleable condition.
4. No credit will be issued on return of items that have been special ordered, used, altered or autoclaved.
5. Used equipment may not be returned unless defective and will be repaired or replaced at VILEX's discretion
6. Returns of implantable and sterile packaged items are subject to refusal per compliance with FDA regs.
7. After 30 days, all returns will be subject to a 35% restocking charge. No Returns after 60 days except for credit, i.e. returns after 60 days will be assessed a 50% restocking fee for credit only.
8. All merchandise should be insured for traceability and shipped in original container or the equivalent. All cables, connectors, etc.... should be disconnected from electrical components prior to shipping to prevent possible shipping damage.
9. Freight charges must be paid by purchaser when returning goods both to and from the purchaser unless VILEX's error.
10. Rental Agreements that exceed the expiration date constitutes an agreement to purchase.
11. If a shortage occurs, a claim must be made within 48 hours.

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Precautions, Cleaning, and Sterilization

The following are suggestions applicable to all Vilex Power Equipment

Precautions:

- Always follow proper sterilization procedures before operating any device in a sterile field
- Do not attempt to open or disassemble any motor, console box, or hand piece; doing so will void your warranty
- Do not use the equipment near a pacemaker or high-powered surgical unit to avoid electronic interference
- Do not operate at voltages higher than recommended
- Do not attempt to replace console fuses with the power cable connected
- Do not drop any piece of equipment
- Do not use force to connect or disconnect the motor cable, power cord or foot switch cable; grip the connector NOT the cord to disconnect
- Do not crimp, cut or pinch any cable or power cord
- Do not autoclave the console or foot switches
- Do not connect a hand piece while the motor is running

NOTE: the Vilex motor plugs into the console (box) via a motor cord. Hand pieces plug into the motor. Vilex refers to hand pieces as any saw (sagittal, reciprocating, or oscillating), any rotary/drill, or wire driver which plugs into/attaches to the motor.

Cleaning:

Never immerse Vilex Power Equipment in any liquid to clean, sterilize or cool; never ultrasonic clean
All instruments should be cleaned prior to sterilization

1. Always disconnect the hand piece from the motor before cleaning
2. Scrub the hand piece or motor with mild soapy water using a soft nylon brush or cloth; avoid letting soapy water enter the end of the hand piece which connects with the motor
3. Rinse briefly under running tap water
4. Dry thoroughly with a soft cloth
5. The motor and hand piece are now ready for sterilization

Sterilization Guidelines:

- Follow AMMI guidelines for sterilizing power surgical instruments
- Vilex PA414 (9003-414) Kelgraf Mineral Oil Lubricant or PA413 (9003-413) Aerosol Instrument Lubricant should be used to ensure peak performance of the electric motor and hand pieces. Spraying or putting a couple of drops of lubricant at the motor connection end of the hand piece and in the motor before autoclaving should keep your equipment well lubricated. The lubricants should be used on the instrumentation after cleaning; prior to autoclaving
- PMC825 & PAC126 (#8 motor with detachable cord) or PMC250 (9750-250R brushless electric motor/cord assembly) must be wrapped separately to prevent the connector parts and the motor housing from resting on the silicone cord. All other hand pieces (saws, drills, wire drivers) can be autoclaved without wrapping
- Do not put any motor or hand piece in a SEALED POUCH. Moisture will be trapped inside the hand piece, it will not be sterile, and the internal parts will eventually corrode
- Place instruments on a sterilization tray or in a perforated sterilization case

Prevacuum Sterilization

Use HARD GOODS CYCLE if your steam sterilizer has a prefixed cycle. If not, set the exposure to four minutes.
Note: Drying time is a minimum of eight minutes

Gravity Air Displacement Sterilizer Unit

Exposure time for unwrapped hand pieces is 270°- 272° (132-133 C)
Set time for thirteen minutes
Exposure time for individually wrapped motors or hand pieces is 270°-272° (132-133 C)
Set time for eighteen minutes
Note: Drying time is a minimum of eight minutes

Gas Sterilization

100% Cold Cycle	4 hours @ 86° (30 C)
100% Warm Cycle	90 minutes @ 145° (63 C)
88%/12"	150 minutes @ 130° (54 C)

Accidental immersion procedures:

Contact Vilex immediately at 1-931-474-7550
Following these four steps will help preserve your warranty as well as your hand piece or motor:

1. To rinse away any corrosive fluids and precipitates, wash the hand piece or motor under running water (preferably distilled)
2. Autoclave the instrument at 270° for thirty-five minutes with a ten minute drying cycle
3. After the instrument has cooled, use either Vilex kelgraf oil or Vilex aerosol spray to lubricate all the features especially the motor and hand piece connections. Do not saturate with lubricant.
4. The hand piece or motor should then be packaged and sent immediately to Vilex for servicing. Please include a description of the liquid the hand piece or motor was immersed in and the duration. The hand piece or motor will be disassembled, cleaned and promptly returned.

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- Do not attempt to replace console fuses with the power cable connected
- Do not drop any piece of equipment
- Do not use force to connect or disconnect the motor cable, power cord or foot switch cable; grip the connector NOT the cord to disconnect
- Do not crimp, cut or pinch any cable or power cord
- Do not autoclave the console or foot switches
- Do not connect a hand piece while the motor is running

NOTE: the Vilex motor plugs into the console (box) via a motor cord. Hand pieces plug into the motor. Vilex refers to hand pieces as any saw (sagittal, reciprocating, or oscillating), any rotary/drill, or wire driver which plugs into/attaches to the motor.

Cleaning:

Never immerse Vilex Power Equipment in any liquid to clean, sterilize or cool; never ultrasonic clean
All instruments should be cleaned prior to sterilization

1. Always disconnect the hand piece from the motor before cleaning
2. Scrub the hand piece or motor with mild soapy water using a soft nylon brush or cloth; avoid letting soapy water enter the end of the hand piece which connects with the motor
3. Rinse briefly under running tap water
4. Dry thoroughly with a soft cloth
5. The motor and hand piece are now ready for sterilization

Sterilization Guidelines:

- Follow AMMI guidelines for sterilizing power surgical instruments
- Vilex PA414 (9003-414) Kelgraf Mineral Oil Lubricant or PA413 (9003-413) Aerosol Instrument Lubricant should be used to ensure peak performance of the electric motor and hand pieces. Spraying or putting a couple of drops of lubricant at the motor connection end of the hand piece and in the motor before autoclaving should keep your equipment well lubricated. The lubricants should be used on the instrumentation after cleaning; prior to autoclaving
- PMC825 & PAC126 (#8 motor with detachable cord) or PMC250 (9750-250R brushless electric motor/cord assembly) must be wrapped separately to prevent the connector parts and the motor housing from resting on the silicone cord. All other hand pieces (saws, drills, wire drivers) can be autoclaved without wrapping
- Do not put any motor or hand piece in a SEALED POUCH. Moisture will be trapped inside the hand piece, it will not be sterile, and the internal parts will eventually corrode
- Place instruments on a sterilization tray or in a perforated sterilization case

Prevacuum Sterilization

Use HARD GOODS CYCLE if your steam sterilizer has a prefixed cycle. If not, set the exposure to four minutes.
Note: Drying time is a minimum of eight minutes

Gravity Air Displacement Sterilizer Unit

Exposure time for unwrapped hand pieces is 270°- 272° (132-133 C)
Set time for thirteen minutes
Exposure time for individually wrapped motors or hand pieces is 270°-272° (132-133 C)
Set time for eighteen minutes
Note: Drying time is a minimum of eight minutes

Gas Sterilization

100% Cold Cycle	4 hours @ 86° (30 C)
100% Warm Cycle	90 minutes @ 145° (63 C)
88%/12"	150 minutes @ 130° (54 C)

Accidental immersion procedures:

Contact Vilex immediately at 1-931-474-7550

Following these four steps will help preserve your warranty as well as your hand piece or motor:

1. To rinse away any corrosive fluids and precipitates, wash the hand piece or motor under running water (preferably distilled)
2. Autoclave the instrument at 270° for thirty-five minutes with a ten minute drying cycle
3. After the instrument has cooled, use either Vilex kelgraf oil or Vilex aerosol spray to lubricate all the features especially the motor and hand piece connections. Do not saturate with lubricant.
4. The hand piece or motor should then be packaged and sent immediately to Vilex for servicing. Please include a description of the liquid the hand piece or motor was immersed in and the duration. The hand piece or motor will be disassembled, cleaned and promptly returned.

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